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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|----------------------|----------------------|---------------------|------------------|
| 10/668,491 | 09/23/2003 | Mark Gary Weinberg | CL1916 US NA | 2271 |
| 23906 7590 03/16/2007 E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER BARLEY MILL PLAZA 25/1128 4417 LANCASTER PIKE WILMINGTON, DE 19805 | | | EXAMINER | |
| | | | FEELY, MICHAEL J | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 1712 | |
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| SHORTENED STATUTORY | Y PERIOD OF RESPONSE | MAIL DATE | DELIVERY MODE | |
| 3 MOI | NTHS | 03/16/2007 | PAPER | |

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

| | Application No. | Applicant(s) | | | | |
|---|---|--|-------------|--|--|--|
| | 10/668,491 | WEINBERG ET AL. | | | | |
| Office Action Summary | Examiner | Art Unit | | | | |
| | Michael J. Feely | 1712 | - | | | |
| The MAILING DATE of this communication | appears on the cover she | et with the correspondence add | ress | | | |
| Period for Reply | | | ; | | | |
| A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b). | G DATE OF THIS COMM! R 1.136(a). In no event, however, m n. briod will apply and will expire SIX (6) tatute, cause the application to becor | UNICATION. ay a reply be timely filed MONTHS from the mailing date of this conne ABANDONED (35 U.S.C. § 133). | • | | | |
| Status | | | | | | |
| 1)⊠ Responsive to communication(s) filed on 1 | 5 December 2006. | | | | | |
| | This action is non-final. | | | | | |
| 3)☐ Since this application is in condition for all | owance except for formal | matters, prosecution as to the | merits is | | | |
| closed in accordance with the practice und | ler <i>Ex par</i> te Quayle, 1935 | C.D. 11, 453 O.G. 213. | | | | |
| Disposition of Claims | | | | | | |
| | -4! | | | | | |
| 4) Claim(s) 29-49 is/are pending in the applic | | | * } | | | |
| 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. | drawn from consideration | • | • | | | |
| 6)⊠ Claim(s) <u>29-49</u> is/are rejected. | | | | | | |
| 7) ☐ Claim(s) is/are rejected. | | | • | | | |
| 8) Claim(s) are subject to restriction a | nd/or election requirement | · } | | | | |
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| Application Papers | | | | | | |
| 9)☐ The specification is objected to by the Exar | niner. | | | | | |
| 10)⊠ The drawing(s) filed on <u>23 September 200</u> 3 | g is/are: a)⊠ accepted or | b) objected to by the Exam | iner. | | | |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the co | • | -····································· | , , | | | |
| 11) The oath or declaration is objected to by th | e Examiner. Note the atta | ched Office Action or form PT0 | J-152. | | | |
| Priority under 35 U.S.C. § 119 | | | 1 | | | |
| 12) Acknowledgment is made of a claim for for | eian priority under 35 U.S. | C. § 119(a)-(d) or (f) | من سور | | | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | o.g., po, aao. oo oo | | | | | |
| 1.☐ Certified copies of the priority docum | nents have been received | | : | | | |
| 2. Certified copies of the priority docum | • | | • | | | |
| 3. Copies of the certified copies of the | | | Stage | | | |
| application from the International Bu | reau (PCT Rule 17.2(a)). | | _ | | | |
| * See the attached detailed Office action for a | list of the certified copies | not received. | | | | |
| | • | | | | | |
| | | | | | | |
| Attachment(s) | | | | | | |
| 1) Notice of References Cited (PTO-892) | 4) 🗍 Inten | riew Summary (PTO-413) | | | | |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 | Pape | r No(s)/Mail Date | | | | |
| 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | | e of Informal Patent Application | | | | |
| U.S. Patent and Trademark Office | O) [_] Other | · | | | | |
| | ce Action Summary | Part of Paper No./Mail Da | te 20070314 | | | |

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DETAILED ACTION

Pending Claims

Claims 29-49 are pending

Response to Amendment

- 1. The rejection of claims 30-32, 34, 36, 45, and 48 under 35 U.S.C. 102(b) as being anticipated by Harpell et al. (US Pat. No. 4,584,347) has been overcome by amendment.
- 2. The rejection of claims 30, 32, 33, 36, 45, and 48 under 35 U.S.C. 102(b) as being anticipated by Tabor et al. (US Pat. No. 5,372,885) has been overcome by amendment.
- 3. The rejection of claims 30, 32, 34, 36, 45, 46, 48, and 49 under 35 U.S.C. 102(e) as being anticipated by Nakagawa et al. (US Pat. No. 6,338,772) has been overcome by amendment.

Claim Rejections - 35 USC § 112, 1st paragraph

- 4. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 5. Claims 29-49 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for:

A spin mixture comprising a spin agent and a polymer component, said polymer

component consisting of a second (functional) polymer or a mixture of a first polymer

and second (functional) polymer, said first polymer present in an amount of 0 to 95 % by

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weight of said polymer component, and said second (functional) polymer present in an amount of 5 to 100 % by weight of said polymer component,

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does not reasonably provide enablement for a polymer component featuring a copolymer of said first and second polymers. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

Applicant's amendment to the claims has broadened the scope of the polymer component to include copolymers of said first and second polymers. However, the specification only supports a polymer component represented by: (a) a blend consisting of the first and second (functional) polymers; or (b) a second (functional) polymer used alone – see paragraphs 0015-0016.

Claim Rejections - 35 USC § 112, 2nd paragraph

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 29-49 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. Both independent claims 29 and 30 describe a polymer component which *comprises* 0 to 95 % by weight of a first polymer and 5 to 100% by weight of a second (functional) polymer. In light of these ranges and the disclosure set forth in the specification *(see paragraphs 0015-0016)*, the first polymer, when used alone, accounts for 100% by weight of the polymer component. Similarly, the blend of the first and second polymers accounts for 100% by weight of the

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polymer component. Conversely, the word *comprises* is open language suggesting the possibility of other materials present in the polymer component. It is unclear how the word *comprises* can be used in concert with these complete weight percentages.

- 9. Claim 32 recites the limitation "the polymer mixture" in claim 30. There is insufficient antecedent basis for this limitation in the claim.
- 10. Claims 41 and 42 recite the limitation "perfluorovinyl ether" in claim 30. There is insufficient antecedent basis for this limitation in the claim.

Suggested Claim Language

- The following claim language is suggested to overcome the rejections under 35
 U.S.C. 112.
 - 29. A spin mixture comprising a spin agent and a polymer component, said polymer component consisting of a second polymer or a mixture of a first polymer and second polymer;

wherein said first polymer is selected from the group consisting of polyethylene and polyethylene terephthalate, and said first polymer is present in an amount of 0 to 95 % by weight of said polymer component;

wherein said second polymer is a functional polymer selected from the group consisting of functional polyethylene and functional polyethylene terephthalate, said functional polymer having 1 to 25 mol% of pendant functional groups selected from the group consisting of fluorocarbon radicals and oxyethylene radicals, and said second polymer is present in an amount of 5 to 100 % by weight of said polymer component.

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30. A spin mixture comprising a spin agent and a polymer component, said polymer component consisting of a second polymer or a mixture of a first polymer and second polymer;

wherein said first polymer is selected from the group consisting of polyolefins, copolymers of polyolefins with ethylenically unsaturated monomers, polyesters, and mixtures thereof, and said first polymer is present in an amount of 0 to 95 % by weight of said polymer component;

wherein said second polymer is a functional polymer selected from the group consisting of functional polyolefins, functional copolymers of polyolefins with ethylenically unsaturated monomers, functional polyesters, and mixtures thereof, said functional polymer having 1 to 25 mol% of pendant functional groups selected from the group consisting of fluorocarbon radicals, vinyl silane radicals, and oxyethylene radicals, and said second polymer is present in an amount of 5 to 100 % by weight of said polymer component.

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Conclusion

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12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Communication

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Feely whose telephone number is 571-272-1086. The examiner can normally be reached on M-F 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael J. Feely Primary Examiner Art Unit 1712

March 14, 2007

MICHAEL FEELY PRIMARY EXAMINER